

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|---------------------|
| L1 | 1 | ("6359987").PN. | US-PGPUB; USPAT | OR | OFF | 2008/03/04 11:11 |
| L2 | 18 | ("4549147" "5008631" "5216379" "5532649" "5661811" "5796854" "5910991").PN. OR ("6359987").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/04 11:11 |
| L3 | 12 | ("4583245" "5661811").PN. OR ("5910991").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/04 11:12 |
| L4 | 0 | JONG-KWANG-kim.in. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/04 11:52 |
| L5 | 10 | "kim JONG-KWANG".in. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/04 11:52 |
| S1 | 8 | ((("6359987") or ("4410890") or ("6449371")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/09/07 10:04 |
| S2 | 1947 | MP3 adj player | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:23 |
| S3 | 170 | (MP3 adj player) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:25 |
| S4 | 6 | ((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:28 |

| | | | | | | |
|-----|------|--|--|----|-----|---------------------|
| S5 | 102 | mp3 and (automatic adj (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:31 |
| S6 | 16 | (mp3 and (automatic adj (gain or volume))) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:29 |
| S7 | 103 | (mp3 or (mpeg adj layer3) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:33 |
| S8 | 119 | (mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:33 |
| S9 | 27 | ((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume))) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:42 |
| S10 | 8405 | (mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:47 |
| S11 | 1214 | ((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three)) and feedback | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:44 |

| | | | | | | |
|-----|------|---|--|----|-----|---------------------|
| SI2 | 1965 | ((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) control | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:45 |
| SI3 | 1142 | (((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) control)) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:45 |
| SI4 | 127 | ((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) adj control | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:46 |
| SI5 | 22 | (((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) adj control) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:46 |
| SI6 | 8284 | ((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:49 |
| SI7 | 1536 | ((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:48 |
| SI8 | 0 | ((((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512") and feedback near (automatic adj (gain or volume))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:49 |

| | | | | | | |
|-----|------|---|--|----|-----|---------------------|
| S19 | 0 | ((("mp3 or ("mpeg layer 3" or ("mpeg layer three" or ("mpeg layer III")))) and @ad<"20000512") and feedback near6 (automatic adj (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:49 |
| S20 | 3 | ((("mp3 or ("mpeg layer 3" or ("mpeg layer three" or ("mpeg layer III")))) and @ad<"20000512") and feedback same (automatic adj (gain or volume)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:49 |
| S21 | 1949 | (mp3 or ("mpeg layer 3" or ("mpeg layer three" or ("mpeg layer III")) adj player | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 09:50 |
| S22 | 170 | ((("mp3 or ("mpeg layer 3" or ("mpeg layer three" or ("mpeg layer III")) adj player) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:23 |
| S23 | 2 | "6407325".URPN. | USPAT | OR | OFF | 2004/08/09 10:41 |
| S24 | 2 | ("6256303").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 10:49 |
| S25 | 13 | ("5272525" "5299264" "5319716" "5349386" "5410735" "5477539" "5491839" "5581617" "5619582" "5666658" "5768696" "6067039" "6137995").PN. | USPAT | OR | OFF | 2004/08/09 10:49 |
| S26 | 3 | "5640548" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 10:54 |

| | | | | | | |
|-----|------|---|--|----|-----|---------------------|
| S27 | 28 | diamond adj rio | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:24 |
| S28 | 9 | mp3 adj player and ipod | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:30 |
| S29 | 1363 | computer and (mp3 adj player) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:30 |
| S30 | 49 | (computer and (mp3 adj player)) and sound adj card | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:30 |
| S31 | 0 | ((computer and (mp3 adj player)) and sound adj card) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:30 |
| S32 | 170 | (mp3 adj player) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:31 |
| S33 | 87 | winamp | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:31 |

| | | | | | | |
|-----|----|---|--|----|-----|---------------------|
| S34 | 12 | winamp and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:34 |
| S35 | 11 | rio adj mp3 adj player | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 11:35 |
| S36 | 0 | "20020078375".URPN. | USPAT | OR | OFF | 2004/08/09 11:35 |
| S37 | 85 | portable adj mp3 adj player | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:04 |
| S38 | 4 | ("6061306" "6252830" "6292440" "6316912").PN. | USPAT | OR | OFF | 2004/08/09 11:39 |
| S39 | 36 | ("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4 | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:05 |
| S40 | 34 | ((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000513" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:05 |
| S41 | 34 | ((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:06 |

| | | | | | | |
|-----|------|---|--|----|-----|---------------------|
| S42 | 5 | ((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000512") and audio | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:06 |
| S43 | 1059 | audio same output adj detect\$5 | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:07 |
| S44 | 307 | audio near5 output adj detect\$5 | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:07 |
| S45 | 338 | audio near5 (output adj detect\$5) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:07 |
| S46 | 1059 | audio same (output adj detect\$5) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:07 |
| S47 | 290 | (audio near5 (output adj detect\$5)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:09 |
| S48 | 40 | (audio adj output adj device) near5 detect\$5 | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:10 |

| | | | | | | |
|-----|----|--|--|----|-----|---------------------|
| S49 | 32 | ((audio adj output adj device) near5 detect\$5) and @ad<"20001512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:10 |
| S50 | 0 | detect adj audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:11 |
| S51 | 1 | detect\$5 adj audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 12:11 |
| S52 | 2 | determine adj audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:36 |
| S53 | 0 | "20010049566".URPN. | USPAT | OR | OFF | 2004/08/09 13:18 |
| S54 | 0 | sense adj signal and audio adj ouput adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:37 |
| S55 | 0 | (determine or design\$4 or decid\$3 or resolve or establish) adj audio adj ouput adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:39 |
| S56 | 0 | (determine or design\$4 or decid\$3 or resolve or establish) same audio adj ouput adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:39 |

| | | | | | | |
|-----|------|--|--|----|-----|---------------------|
| S57 | 4 | (determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:40 |
| S58 | 4 | (determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) near audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:41 |
| S59 | 22 | (determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) near6 audio adj output adj device | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:42 |
| S60 | 1653 | (determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) adj ((audio adj output adj device) or speaker or headphone or earphone) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:45 |
| S61 | 1113 | ((determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) adj ((audio adj output adj device) or speaker or headphone or earphone)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:43 |
| S62 | 3 | ((((determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) adj ((audio adj output adj device) or speaker or headphone or earphone)) and @ad<"20000512") and (mp3 or "mpeg layer 3" or "mpeg layer three" or "mpeg layer iii") | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:45 |
| S63 | 253 | (determine or design\$4 or decid\$3 or resolve or establish) adj ((audio adj output adj device) or speaker or headphone or earphone) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 13:47 |
| S64 | 7 | ("4549147" "5008631" "5216379" "5532649" "5661811" "5796854" "5910991").PN. | USPAT | OR | OFF | 2004/08/09 13:54 |

| | | | | | | |
|-----|----|--|--|----|-----|---------------------|
| S65 | 1 | ((mp3 adj player) near computer) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:53 |
| S66 | 0 | (computer adj mp3 adj player) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:53 |
| S67 | 44 | computer adj mp3 adj player | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:54 |
| S68 | 0 | "20030233509".URPN. | USPAT | OR | OFF | 2004/08/09 14:55 |
| S69 | 63 | (mp3 adj player) near computer | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:57 |
| S70 | 19 | ((mp3 adj player) near computer) not (computer adj mp3 adj player) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:58 |
| S71 | 1 | (computer near mp3) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 14:58 |
| S72 | 41 | (computer near5 mp3) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:01 |

| | | | | | | |
|-----|----|--|--|----|-----|---------------------|
| S73 | 1 | (sound adj card near5 mp3) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:02 |
| S74 | 4 | (sound adj card same mp3) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:02 |
| S75 | 4 | ((("6359387") or ("6449371"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:15 |
| S76 | 0 | (headphone or earphone) near impedance near speaker | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:15 |
| S77 | 1 | headphone near speaker near impedance | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:20 |
| S78 | 23 | headphone near impedance | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:24 |
| S79 | 7 | ("4549147" "5008631" "5216379" "5532649" "5661811" "5796854" "5910991").PN. | USPAT | OR | OFF | 2004/08/09 15:23 |
| S80 | 14 | ((("4549147") or ("5008631") or ("5216379") or ("5532649") or ("5661811") or ("5796854") or ("5910991"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:25 |

| | | | | | | |
|-----|------|--|--|----|-----|---------------------|
| S81 | 1414 | control near (headphone near ((determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:27 |
| S82 | 1044 | (control near (headphone near ((determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:26 |
| S83 | 0 | determine near (control near (headphone near ((determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:27 |
| S84 | 9 | (control near (headphone near\$5 speaker)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:32 |
| S85 | 5 | (gain adj control) same depend\$5 and (speaker same headphone) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:34 |
| S86 | 59 | ((increase or raise or boost) adj (gain or volume or level) or amplify) near (headphone or earphone or headset) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:40 |
| S87 | 42 | ((((increase or raise or boost) adj (gain or volume or level) or amplify) near (headphone or earphone or headset)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:37 |

| | | | | | | |
|-----|----|---|--|----|-----|---------------------|
| S88 | 0 | ((((increase or raise or boost) adj (gain or volume or level) or amplify near (speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) near (headphone or earphone or earpiece or headset))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:41 |
| S89 | 0 | ((((increase or raise or boost) adj (gain or volume or level) or amplify near (speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) near (headphone or earphone or earpiece or headset))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/09 15:41 |
| S90 | 3 | ((((increase or raise or boost) adj (gain or volume or level) or amplify same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:25 |
| S91 | 5 | ("5163161" "5822686" "5946635" "6225898" "6421389").PN. | USPAT | OR | OFF | 2004/08/09 15:43 |
| S92 | 3 | ((determine) near (gain or volume or output or amplitude)) near (audio adj output) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:26 |
| S93 | 73 | ((determine) near4 (gain or volume or output or amplitude)) near4 (audio adj output) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:27 |
| S94 | 3 | (determine near (audio adj output adj device)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:32 |
| S95 | 0 | "20010049566".URPN. | USPAT | OR | OFF | 2004/08/10 10:28 |

| | | | | | | |
|------|-----|--|--|----|-----|---------------------|
| S96 | 673 | 700/94 | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:32 |
| S97 | 257 | 700/94 and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:33 |
| S98 | 0 | (700/94 and @ad<"20000512") and determine adj output adj device | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:33 |
| S99 | 13 | (determine adj output adj device) and audio | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:34 |
| S100 | 5 | ((determine adj output adj device) and audio) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:35 |
| S101 | 7 | (gain adj control) near audio adj output | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:35 |
| S102 | 5 | (gain adj control) near (audio adj output) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:57 |

| | | | | | | |
|------|-----|---|--|----|-----|---------------------|
| SI03 | 479 | ((381/107).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 10:57 |
| SI04 | 364 | ((381/107).CCLS.) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:45 |
| SI05 | 263 | (381/74).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:45 |
| SI06 | 185 | ((381/74).CCLS.) and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:49 |
| SI07 | 44 | ((381/74).CCLS.) and @ad<"20000512") and ((gain or volume or amplitude or loud\$5) adj control) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:47 |
| SI08 | 8 | ((381/74).CCLS.) and @ad<"20000512") and (automatic adj(gain or volume or amplitude or loud\$5) adj control) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:47 |
| SI09 | 8 | ((381/74).CCLS.) and @ad<"20000512") and (automatic adj (gain or volume or amplitude or loud\$5) adj control) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:47 |

| | | | | | | |
|------|-----|--|--|----|-----|---------------------|
| SI10 | 479 | (381/107).CCL.S. | US:PGPUB; USPAT; USOOR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:50 |
| SI11 | 1 | ("6654597".PN. and (((((increase or raise or boost) adj (gain or volume or level) or amplify) same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset)))) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:50 |
| SI12 | 1 | ((("6654597".PN. and (((((increase or raise or boost) adj (gain or volume or level) or amplify) same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset)))) and @ad<"20000512") and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:50 |
| SI13 | 364 | ((381/107).CCL.S.) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:51 |
| SI14 | 3 | high adj impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set)) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:53 |
| SI15 | 3 | (high or large or great) adj impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set)) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:53 |
| SI16 | 40 | impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set)) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/10 11:57 |
| SI17 | 0 | "20030185400".URPN. | USPAT | OR | OFF | 2004/08/10 11:54 |

| | | | | | | |
|------|----|---|--|----|-----|---------------------|
| S118 | 7 | (detect or determine or discern or sense or perceive or distinguish or sense or identify) adj ("audio output device") | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:03 |
| S119 | 1 | amplified adj headphones | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:03 |
| S120 | 51 | (amplified or powered) adj (headphone! or earphone! or headset!) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:05 |
| S121 | 32 | ((amplified or powered) adj (headphone! or earphone! or headset!)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:08 |
| S122 | 3 | unpowered adj speaker | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:08 |
| S123 | 33 | active adj (headset! or headphone! or earphone!) | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 13:16 |
| S124 | 23 | (active adj (headset! or headphone! or earphone!)) and @ad<"20000512" | US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 14:22 |

| | | | | | | |
|------|----|--|--|----|-----|---------------------|
| SI25 | 3 | (high adj impedance adj (headset! or headphone! or earphone!)) and @ad<"20000512" | US_PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 14:24 |
| SI26 | 55 | (high adj impedance same (headset! or headphone! or earphone!)) and @ad<"20000512" | US_PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/11 14:35 |
| SI27 | 68 | (high adj impedance same (headset! or headphone! or earphone!)) | USOCR | OR | OFF | 2004/08/11 14:36 |
| SI28 | 2 | (high adj impedance adj (headset! or headphone! or earphone!)) | USOCR | OR | OFF | 2004/08/11 14:36 |
| SI29 | 2 | ("6359987").PN. | US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/12 09:13 |
| SI30 | 91 | "8 ohm speaker" and @ad<"20000512" | US_PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/12 09:35 |
| SI31 | 0 | "2000 ohm" adj (headphone! or headset! or earphone! or head adj set! or head adj phone! or ear adj phone!) | US_PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/12 09:36 |
| SI32 | 13 | ohm adj (headphone! or headset! or earphone! or head adj set! or head adj phone! or ear adj phone!) | US_PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2004/08/12 09:36 |

| | | | | | | |
|------|-----|--|--|----|-----|---------------------|
| SI35 | 5 | "6359987" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2005/03/17 13:02 |
| SI36 | 3 | ((("6359987") or ("6449371") or ("4410890"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/03/17 13:02 |
| SI37 | 2 | ("6359987").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2005/06/22 10:53 |
| SI38 | 62 | (headphone earphone earjack) with voltage with (speaker) | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2006/10/04 11:38 |
| SI39 | 31 | SI38 and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2006/10/04 11:29 |
| SI40 | 2 | ("5910991" "6424875").PN. OR ("6885899").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/10/04 11:34 |
| SI41 | 526 | (headphone earphone earjack) with voltage | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2006/10/04 11:38 |
| SI42 | 297 | SI41 and @ad<"20000512" | US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB | OR | OFF | 2006/10/04 11:38 |
| SI43 | 6 | ("4827221" "5300892" "5535281" "5760652" "5770973" "5787182").PN. OR ("5850459").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/10/04 11:48 |
| SI44 | 1 | ("6,359,987").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/04 11:54 |

| | | | | | | |
|-------|-----|---|--------------------|----|-----|---------------------|
| SI145 | 1 | ("6934236").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/04 13:37 |
| SI146 | 372 | (710/303).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/10/04 13:37 |
| SI147 | 0 | ("2006021637").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/10 09:53 |
| SI148 | 1 | ("20060212637").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/10 16:05 |
| SI149 | 1 | ("20040122840").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/11 09:50 |
| SI150 | 0 | ("6941181,6529787,6374148,6301513,6007228").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/11 09:51 |
| SI151 | 5 | ((("6941181") or ("6529787") or ("6374148") or ("6301513") or ("6007228"))).PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/11 09:51 |

3/4/2008 11:58:30 AM

C:\Documents and Settings\aflanders\My Documents\EAST\Workspaces\09851451.wsp